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<tr>
<th>S. No.</th>
<th>Thrust Area (Theme)</th>
<th>Project Title</th>
<th>Objective</th>
<th>Institute</th>
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<tr>
<td>1.</td>
<td>Forest Productivity (Social Forestry, Agroforestry/Farm Forestry)</td>
<td>Development of economically viable and integrated Agroforestry Models for arid region</td>
<td>To study the effect of different tree species on the growth and yield of agricultural crops. To study the growth and biomass (fodder) of different silvicultural species under different combinations. To study interaction effect of silvi species and horti species. To study the effect of different tree species on soil fertility and soil physical characteristics.</td>
<td>AFRI</td>
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<td>2.</td>
<td>Forest Productivity (Social Forestry, Agroforestry/Farm Forestry)</td>
<td>Integrated Development of Bamboo for Economic Upliftment in Central India with following four sub-projects. i. Sustainable development of new bamboo agroforestry techniques of increased income generation in the central Indian states (Agroforestry Division).</td>
<td>1. Motivate progressive farmers by providing training to them on the benefits of adopting bamboo based agroforestry systems and subsequently providing them planting stock of bamboos. 2. Establish Bamboo based Agroforestry systems as an On Station Research (OSR) trial.</td>
<td>TFRI</td>
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<td>3.</td>
<td>Forest Productivity (Social Forestry, Agroforestry/Farm Forestry)</td>
<td>Enhancing productivity of saline wastelands in Kachchh through improved tree planting techniques and silvipastoral study</td>
<td>1. To screen different exotic and indigenous plant species for their survival growth and biomass production potential 2. To find out the best planting technique and optimum level of amendments and fertilizers 3 Improvement of productivity of degraded lands by introduction of silvipastoral system</td>
<td>AFRI</td>
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<td>4.</td>
<td>Forest Productivity (Social Forestry, Agroforestry)</td>
<td>Effect of populus deltoids on shade loving medicinal plants</td>
<td>Short term objectives: • Developing site specific economically viable agro forestry models based on medicinal plants</td>
<td>FRI</td>
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</tbody>
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| 5. | Forest Productivity (Social Forestry, Agroforestry/Farm Forestry) | Tree crop interaction: Effect of Melia Composita: spp. on crops | Short term:  
- Study of crops for cultivation with Melia species and their comparison of performance.  
- Documentation of tree growth and crop yield.  
Long term:  
- To study the tree – crop interaction between different components  
- To compare productivity and economics of different crop combination  
- Monitoring changes in soil properties. | FRI |
|---|---|---|---|---|
| 6. | Forest Productivity (Social Forestry, Agroforestry/Farm Forestry) | Development of site specific medicinal plant based agro forestry models for existing plantation in Eastern UP and establishment of demonstration models | Long term objectives:  
Development of medicinal plant based multitier agroforestry models for Uttar Pradesh.  
Short term objectives:  
1. Standardization of location specific agro-practice for medicinal plants under monoculture and tre- crop intercropping with selected tree species.  
2. To study crop interactions within the components of the agroforestry trials. | FRI |
|    | Forest Productivity (Social Forestry, Agroforestry/Farm Forestry) | Introduction and Performance Trials of Gmelina arborea for Agroforestry in Lower Hills of Himachal Pradesh and Jammu & Kashmir | 3. To study the impact of medicinal plants on adoption of agroforestry models.  
4. Establishment of models on farmers fields.  
5. Training and extension of developed medicinal plant based agroforestry models.  
ii) To evaluate the growth performance of G. arborea in lower hills.  
iii) To impart training on cultivation of G. arborea to the target group. | HFRI |
|---|---|---|---|---|
| 7. | Evaluation of soil fertility status and nutrient return from the important indigenous agroforestry tree species in Himachal Pradesh with special reference to Hamirpur district. | 5 years (April, 2006-2011) | i) To evaluate the soil fertility status around the important agroforestry tree species.  
ii) To access the nutrient contents in the litter of major agroforestry species.  
iii) To assess the nutrient return to the soil/ground through agroforestry species.  
iv) To find out the suitable agroforestry tree species for further incorporation in the agroforestry programmes. | HFRI |
| 8. | Development of Agroforestry systems with economically important medicinal plans under industrial tree species of Casuarina and Eucalyptus. | 3 years (April-2009-12) | 1. To study physical and chemical properties of the soil under the medicinal plants based Agroforestry system.  
2. To assess the phytochemical properties of medicinal plants under agroforestry system.  
3. To find out the suitability and compatibility of the medicinal plants under industrial tree species - Casuarina and Eucalyptus | IFGTB |
<p>| 9. | Documentation of Agroforestry Systems and wood flow to Wood | 1. To document the various agroforestry systems practiced in Tamil Nadu | IFGTB |</p>
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<thead>
<tr>
<th>No.</th>
<th>Project Title</th>
<th>Duration</th>
<th>Objectives</th>
<th>Agency</th>
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| 10  | Forestry, Agro-forestry/Farm Forestry                                         | 3 years (June, 2010-2013)         | 2. To quantify the wood flow from farm and agroforestry systems to various wood based industries in Tamil Nadu.  
3. To study the supply chain in wood based industries.  
4. To assess the contribution of farm and agroforestry systems to the GDP.  
5. To suggest suitable models to farmers in different regions for adoption.                                                                                                 |        |
| 11  | Forest Productivity (Social Forestry, Agro-forestry/Farm Forestry)            | Evaluation of selected phenotypes of Casuarina for establishment of windbreaks in farmlands  
3 years (April, 2010-13)                                              | • To evaluate performance of selected phenotypes of Casuarina junghuhniana and Casuarina equisetifolia as windbreaks.  
• To develop Casuarina based windbreak agroforestry system for crop protection and enhanced productivity.                                                                                                                                      | IFGTB  |
| 12  | Forest Productivity (Social Forestry, Agro-forestry/Farm Forestry)            | Introduction and evaluation of fast growing tree species under Agroforestry systems in different agro-climatic zones of Tamil Nadu.  
5 years (June, 2010-2015)                                              | 1. To establish agroforestry trials with fast growing tree species in farmers’ field under three different agro-climatic zones of Tamil Nadu.  
2. To assess growth performance of tree components both in the established agroforestry plots as well as in the farm fields under TCPL scheme of Tamil Nadu State Forest Department.  
3. To work out the economics of various agroforestry systems with fast growing species.  
4. To transfer agroforestry technology to rural poor for higher economic returns through sustained productivity.                                                                                                                                | IFGTB  |
| 13  | Forest Productivity (Social Forestry, Agro-forestry/Farm Forestry)            | A Value Chain on Industrial Agro-forestry in Tamil Nadu.  
4 Years (June, 2008-2012)                                              | 1. Establishment of lucrative industrial wood plantation with improved short rotation clones through contract farming.  
2. Wood technological characterization and development of suitable alternate genetic resources for pulp and match                                                                                                                                  | IFGTB  |
<table>
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<tr>
<th></th>
<th>Forest Productivity (Social Forestry, Agro-forestry/Farm Forestry)</th>
<th>Wood. 3. Optimizing precision silvicultural technologies for productivity improvement of industrial wood species. 4. Development and concurrent dissemination of suitable post harvest technologies and value addition of plantation and industrial residues through multi stakeholder partnership. 5. Augmenting the existing supply chain system and facilitating marketing of industrial wood through market outlook information system.</th>
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<td>15.</td>
<td>Ecological economic and socio-cultural evaluation of a traditional ficus based agroforestry system in Mandya District, Karnataka</td>
<td>1. To analyze the structure of the ficus based agroforestry system and identify interlinkages between the tree, agricultural crop and domestic animals/ resident or migratory birds in local farming practices.  2. To evaluate the functioning of the system in terms of its ecological interactions and services  3. To assess the economic values of the traditional system in</td>
<td>IWST</td>
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<td>Duration</td>
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| 16. | Forest Productivity (Social Forestry, Agroforestry/Farm Forestry)            | Long term:  
• Socio-economic upliftment of farmers through optimization of productivity in Jhum lands and value addition.  
Short term:  
• To evolve suitable tree-crop associations with appropriate plantation geometry for productivity enhancement in Jhum lands through people's participation.  
• To study impact of increased crop yield and value addition on socio-economic status of participating farmers.  
• Transfer of technology to farmers and entrepreneurs.  | 3 years (April, 2010-2013) | RFRI               |
| 17. | Forest Productivity (Social Forestry, Agroforestry/Farm Forestry)            | Long Term:  
• Integrated nutrient management (INM) for enhanced production and quality of produce.  
Short Term:  
• Screening of potential agroforestry crops for iodine enrichment.  
• Identification of factors responsible for iodine accumulation in agroforestry crops.  
• Evaluation of the quality of iodine fortified agroforestry produce (crops) under INM.  
• Development of package of practice and transfer of technology to the users.  | 3 years (April, 2010-2013) | RFRI               |
<p>| 18. | Forest Productivity (Social Forestry, Agroforestry/Farm Forestry)            | Promotion of bamboo cultivation outside forest area in North-eastern region under Agroforestry.  | 3 years (April, 2010-2013) | RFRI               |</p>
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<th>Organization</th>
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| 19.        | On-farm Innovation in Macroproliferation Technique and Promotion for Commercial Plantation of Edible Bamboo Species | Long Term: Production of quality edible bamboo shoots for sustainable livelihood of the participating farmers  
Short Term: 1. Transfer of macroproliferation technique to the Bamboo SHGs and capacity building.  
2. Liaison with entrepreneurs for assured market. | 2.5 years (March, 2009-Sept. 2011) | RFRI |
| 20.        | Evaluation of Productive of Maize on Dalbergia sissoo (Shisham) and Zea mays (Maize) agroforestry system. | Long Term: To study the effect of inter cropping of Shisham and Maize on the nutrient status of the soil.  
To develop sustainable Agroforestry model for increased production of Maize crop under Shisham-Maize agroforestry system.  
Short term: 1. To study the growth performance and yield of maize in Shisham–Maize system. | 3 years (April 2008-2011) | TFRI |
| 21.        | Development of lac based agroforestry (Silvi-Agri-Lac) system | Long term objectives of the project  
To develop lac based agroforestry (Silvi-Agri-Lac) system.  
Short term objectives of the project 1 To study the compatibility of agri crop in lac based agroforestry (Silvi–Agri-Lac) system for sustainable production of lac. | 5 years (March, 2010-2015) | TFRI |
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<tr>
<th></th>
<th>Forest Productivity (Social Forestry, Agro forestry/Farm Forestry)</th>
<th>Development of multitier cropping (Silvi-Agri-Spice) system.</th>
<th>Long term objectives: To develop high value cropping system for income generation. Short term objectives: To develop aonla based multitier cropping (Silvi-Agri-spice) system. To study the effect of Aonla on growth and yield of intercrops and vice-versa. To transfer the development technology to the user groups</th>
<th>TFRI</th>
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<tr>
<td>22.</td>
<td></td>
<td>5 Years (March, 2010-2015)</td>
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